

Abstract

A Fiber Laser

A diode laser pumped, power stabilized fiber laser comprising a doted fiber (20), a pumping light source (10), as well as entrance and exit side resonator units is characterized in that the entrance resonator unit (14) and/or the exit resonator unit (26) have controllable distances (gaps) (16, 24) to the fiber end faces (18, 22), which are up to 20 μm wide. A controllable variation of the gap widths allows for the generation of light emission on a plurality of switchable and simultaneously excited emission wavelengths in the visible and the near infrared ranges.

(Fig. 1)